CLAIMS

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- 1. An apparatus comprising:
- a first circuit configured to present a decoded video signal; and
- a second circuit configured to generate (i) a first video output signal having a first resolution and (ii) a second video output signal having a second resolution in response to said decoded video signal.
 - 2. The apparatus according to claim 1, wherein said first circuit comprises:
 - a decoder circuit configured to generate said decoded video signal in response to an input signal; and
- a memory circuit configured to store said decoded video signal.
 - 3. The apparatus according to claim 1, wherein said second circuit comprises:
 - a scaler circuit configured to generate a first intermediate signal and a second intermediate signal in response to said decoded video signal.

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- 4. The apparatus according to claim 3, wherein said second circuit further comprises:
- a first video generating circuit configured to generate said first video output signal in response to said first intermediate signal; and

a second video generating circuit configured to generate said second video output signal in response to said second intermediate signal.

- 5. The apparatus according to claim 1, wherein said first video output signal and said second video output signal have different scales.
- 6. The apparatus according to claim 5, wherein said scales are predetermined to optimize said first resolution.
- 7. The apparatus according to claim 5, wherein said scales are predetermined to optimize said second resolution.

- 8. The apparatus according to claim 5, wherein said scales are predetermined to balance said first resolution and said second resolution.
- 9. The apparatus according to claim 5, wherein said scales are user-programmable.
- 10. The apparatus according to claim 9, wherein said scales are constrained according to a ratio of lines in said first video output signal and said second video output signal.
- 11. The apparatus according to claim 1, wherein said first video output signal and second video output signal comprise a standard definition video signal and a high definition video signal, respectively.
- 12. The apparatus according to claim 3, wherein said scaler is configured to generate said first intermediate signal and said second intermediate signal in response to a single reading of image data from said memory circuit.

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13. An apparatus comprising:

means for generating a decoded video signal; and

means for generating (i) a first video output signal

having a first resolution and (ii) a second video output signal

having a second resolution in response to said decoded video

signal.

- 14. A method for displaying video images comprising the steps of:
 - (A) generating a decoded video signal; and
- (B) generating (i) a first video output signal having a first resolution and (ii) a second video output signal having a second resolution in response to said decoded video signal.
- 15. The method according to claim 14, wherein the step (A) comprises:

decoding said decoded video signal in response to an input signal; and

storing said decoded video signal in a storage device.

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16. The method according to claim 14, wherein the step
(B) further comprises:

generating a first intermediate signal in response to said decoded video data and a first scaling factor; and

generating a second intermediate signal in response to said decoded video signal and a second scaling factor, wherein said first intermediate signal and said second intermediate signal are generated simultaneously.

- 17. The method according to claim 16, wherein said first intermediate signal and said second intermediate signal are generated with a single read of image data from said storage device.
- 18. The method according to claim 16, wherein the step
 (B) further comprises:

generating said first video output signal in response to said first intermediate signal; and

generating said second video output signal in response to said second intermediate signal.

- 19. The method according to claim 16, wherein said first scaling factor and said second scaling factor are different.
- 20. The method according to claim 16, wherein said first scaling factor and said second scaling factor are predetermined to optimize said first resolution.
- 21. The method according to claim 16, wherein said first scaling factor and said second scaling factor are predetermined to optimize said second resolution.
- 22. The method according to claim 16, wherein said first scaling factor and said second scaling factor are predetermined to balance said first resolution and said second resolution.
- 23. The method according to claim 16, wherein said first scaling factor and said second scaling factor are user-programmable.
- 24. The method according to claim 16, wherein said first scaling factor and said second scaling factor are constrained

according to a ratio of lines in said first video output signal and said second video output signal.